

* * * * * STN Columbus * * * * *

10/647,232

FILE 'HOME' ENTERED AT 13:45:33 ON 18 MAY 2006

=> file biosis medline caplus wpids uspatfull
COST IN U.S. DOLLARS

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FILE 'USPATFULL' ENTERED AT 13:46:07 ON 18 MAY 2006
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

*** YOU HAVE NEW MAIL ***

=> s extract? (3a) (nucleic acid? or protein?)

3 FILES SEARCHED...

L1 74085 EXTRACT? (3A) (NUCLEIC ACID? OR PROTEIN?)

=> s l1 and (dendrimer? or dendorimer?)

L2 296 L1 AND (DENDRIMER? OR DENDORIMER?)

=> s l2 and surface

L3 267 L2 AND SURFACE

=> s l3 and particle?

L4 228 L3 AND PARTICLE?

=> s l4 and layer?

L5 145 L4 AND LAYER?

=> s l5 and amino

L6 134 L5 AND AMINO

=> s l6 and multilayer?

L7 12 L6 AND MULTILAYER?

=> dup rem l7

PROCESSING COMPLETED FOR L7

L8 12 DUP REM L7 (0 DUPLICATES REMOVED)

=> d l8 bib abs 1-12

L8 ANSWER 1 OF 12 USPATFULL on STN

AN 2006:27528 USPATFULL

TI Wound healing polymer compositions and methods for use thereof

IN Carpenter, Kenneth W., San Diego, CA, UNITED STATES

Zhang, Huashi, San Diego, CA, UNITED STATES

McCarthy, Brendan J., Cardiff, CA, UNITED STATES

Szinai, Istvan, San Diego, CA, UNITED STATES

Turnell, William G., San Diego, CA, UNITED STATES

Gopalan, Sindhu M., San Diego, CA, UNITED STATES

PA MEDIVAS, LLC, San Diego, CA, UNITED STATES (U.S. corporation)

PI US 2006024357 A1 20060202

AI US 2005-128903 A1 20050512 (11)

PRAI US 2004-570668P 20040512 (60)

US 2004-605381P 20040827 (60)

DT Utility
FS APPLICATION
LREP DLA PIPER RUDNICK GRAY CARY US, LLP, 4365 EXECUTIVE DRIVE, SUITE 1100,
SAN DIEGO, CA, 92121-2133, US
CLMN Number of Claims: 58
ECL Exemplary Claim: 1
DRWN 7 Drawing Page(s)
LN.CNT 3379

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides bioactive polymer compositions that can be formulated to release a wound healing agent at a controlled rate by adjusting the various components of the composition. The composition can be used in an external wound dressing, as a polymer implant for delivery of the wound healing agent to an internal body site, or as a coating on the surface of an implantable surgical device to deliver wound healing agents that are covalently attached to a biocompatible, biodegradable polymer and/or embedded within a hydrogel. Methods of using the invention bioactive polymer compositions to promote natural healing of wounds, especially chronic wounds, are also provided. Examples of biodegradable copolymer polyesters useful in forming the blood-compatible, hydrophilic layer or coating include copolyester amides, copolyester urethanes, glycolide-lactide copolymers, glycolide-caprolactone copolymers, poly-3-hydroxy butyrate-valerate copolymers, and copolymers of the cyclic diester monomer, 3-(S)[(alkyloxycarbonyl)methyl]-1,4-dioxane-2,5-dione, with L-lactide. The glycolide-lactide copolymers include poly(glycolide-L-lactide) copolymers formed utilizing a monomer mole ratio of glycolic acid to L-lactic acid ranging from 5:95 to 95:5 and preferably a monomer mole ratio of glycolic acid to L-lactic acid ranging from 45:65 to 95:5. The glycolide-caprolactone copolymers include glycolide and ϵ -caprolactone block copolymer, e.g., Monocryl or Poliglecaprone.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 2 OF 12 USPATFULL on STN
AN 2006:15477 USPATFULL
TI Bioactive stents for type II diabetics and methods for use thereof
IN Carpenter, Kenneth W., San Diego, CA, UNITED STATES
Turnell, William G., San Diego, CA, UNITED STATES
DeFife, Kristin M., San Diego, CA, UNITED STATES
Grako, Kathryn A., San Diego, CA, UNITED STATES
PA MediVas, LLC, San Diego, CA, UNITED STATES (U.S. corporation)
PI US 2006013855 A1 20060119
AI US 2005-147994 A1 20050607 (11)
RLI Continuation-in-part of Ser. No. US 2005-98891, filed on 4 Apr 2005,
PENDING
PRAI US 2004-559937P 20040405 (60)
DT Utility
FS APPLICATION
LREP DLA PIPER RUDNICK GRAY CARY US, LLP, 4365 EXECUTIVE DRIVE, SUITE 1100,
SAN DIEGO, CA, 92121-2133, US
CLMN Number of Claims: 66
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 2772

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is based on the discovery that a vascular stent or other implantable medical device can be coated with a biodegradable biocompatible polymer to which is attached a bioligand that specifically captures progenitors of endothelial cells (PECs) from the circulating blood to promote endogenous formation of healthy endothelium in Type II diabetics. In one embodiment, the bioligand is a peptide that specifically binds to an integrin receptor on PECs. The invention also provides methods for using such vascular stents and other implantable devices to promote vascular healing in Type II diabetics, for example following mechanical intervention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 3 OF 12 USPATFULL on STN
AN 2005:274134 USPATFULL
TI Bioactive stents for type II diabetics and methods for use thereof
IN Carpenter, Kenneth W., San Diego, CA, UNITED STATES
Turnell, William G., San Diego, CA, UNITED STATES
DeFife, Kristin M., San Diego, CA, UNITED STATES
Grako, Kathryn A., San Diego, CA, UNITED STATES
PA MediVas, LLC, San Diego, CA, UNITED STATES (U.S. corporation)
PI US 2005238689 A1 20051027
AI US 2005-98891 A1 20050404 (11)
PRAI US 2004-559937P 20040405 (60)
DT Utility
FS APPLICATION
LREP DLA PIPER RUDNICK GRAY CARY US, LLP, 4365 EXECUTIVE DRIVE, SUITE 1100,
SAN DIEGO, CA, 92121-2133, US
CLMN Number of Claims: 66
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 2736

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is based on the discovery that a vascular stent or other implantable medical device can be coated with a biodegradable biocompatible polymer to which is attached a bioligand that specifically captures progenitors of endothelial cells (PECs) from the circulating blood to promote endogenous formation of healthy endothelium in Type II diabetics. In one embodiment, the bioligand is a peptide that specifically binds to an integrin receptor on PECs. The invention also provides methods for using such vascular stents and other implantable devices to promote vascular healing in Type II diabetics, for example following mechanical intervention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 4 OF 12 USPATFULL on STN
AN 2005:104955 USPATFULL
TI Multimolecular devices and drug delivery systems
IN Cubicciotti, Roger S., Montclair, NJ, UNITED STATES
PI US 2005089890 A1 20050428
AI US 2004-872973 A1 20040621 (10)
RLI Division of Ser. No. US 2001-907385, filed on 17 Jul 2001, GRANTED, Pat. No. US 6762025 Continuation of Ser. No. US 1998-81930, filed on 20 May 1998, GRANTED, Pat. No. US 6287765
DT Utility
FS APPLICATION
LREP Licata & Tyrrell P.C., 66 East Main Street, Marlton, NJ, 08053, US
CLMN Number of Claims: 119
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 15620

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Multimolecular devices and drug delivery systems prepared from synthetic heteropolymers, heteropolymeric discrete structures, multivalent heteropolymeric hybrid structures, aptameric multimolecular devices, multivalent imprints, tethered specific recognition devices, paired specific recognition devices, nonaptameric multimolecular devices and immobilized multimolecular structures are provided, including molecular adsorbents and multimolecular adherents, adhesives, transducers, switches, sensors and delivery systems. Methods for selecting single synthetic nucleotides, shape-specific probes and specifically attractive surfaces for use in these multimolecular devices are also provided. In addition, paired nucleotide-nonnucleotide mapping libraries for transposition of selected populations of selected nonoligonucleotide molecules into selected populations of replicatable nucleotide sequences are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 5 OF 12 USPATFULL on STN

AN 2005:10967 USPATFULL
TI Microfluidic devices comprising biochannels
IN Blackburn, Gary, Glendora, CA, UNITED STATES
PA Motorola, Inc. (U.S. corporation)
PI US 2005009101 A1 20050113
AI US 2004-886408 A1 20040707 (10)
RLI Division of Ser. No. US 2001-861171, filed on 17 May 2001, PENDING
DT Utility
FS APPLICATION
LREP Robin M. Silva, Dorsey & Whitney LLP, Intellectual Property Department,
Four Embarcadero Center, Suite 3400, San Francisco, CA, 94111-4187
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 38 Drawing Page(s)
LN.CNT 5199

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a variety of microfluidic devices with configurations including the use of biochannels or microchannels comprising arrays of capture binding ligands to capture target analytes in samples. The invention provides microfluidic cassettes or devices that can be used to effect a number of manipulations on a sample to ultimately result in target analyte detection or quantification.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 6 OF 12 USPATFULL on STN
AN 2004:220918 USPATFULL
TI Bioactive stents and methods for use thereof
IN Carpenter, Kenneth W., San Diego, CA, UNITED STATES
Zhang, Huashi, San Diego, CA, UNITED STATES
McCarthy, Brendan J., Cardiff, CA, UNITED STATES
Szinaï, Istvan, San Diego, CA, UNITED STATES
Turnell, William G., San Diego, CA, UNITED STATES
Gopalan, Sindhu M., San Diego, CA, UNITED STATES
PA MediVas, LLC, San Diego, CA, UNITED STATES, 92121 (U.S. corporation)
PI US 2004170685 A1 20040902
AI US 2004-788747 A1 20040226 (10)
PRAI US 2003-450627P 20030226 (60)
US 2003-464381P 20030421 (60)
DT Utility
FS APPLICATION
LREP GRAY CARY WARE & FREIDENRICH LLP, 4365 EXECUTIVE DRIVE, SUITE 1100, SAN
DIEGO, CA, 92121-2133
CLMN Number of Claims: 67
ECL Exemplary Claim: 1
DRWN 3 Drawing Page(s)
LN.CNT 2502

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is based on the discovery that stents can be coated with biodegradable, bioactive polymers that promote endogenous healing processes at a site of stent implantation. The polymers biodegrade over time, releasing agents which establish or re-establish the natural healing process in an artery. Preferably, the stent is implanted at the time an artery is damaged, such as at the time of angioplasty to protect the damaged artery against deleterious blood-borne factors that initiate proliferation of smooth muscle cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 7 OF 12 USPATFULL on STN
AN 2004:57477 USPATFULL
TI **Multilayered** microfluidic devices for analyte reactions
IN Briscoe, Cynthia G., Tempe, AZ, UNITED STATES
Burdon, Jeremy W., Scottsdale, AZ, UNITED STATES
Chan, Tony, Scottsdale, AZ, UNITED STATES
Barenburg, Barbara Foley, Phoenix, AZ, UNITED STATES
Grodzinski, Piotr, Chandler, AZ, UNITED STATES
Hawkins, George, Gilbert, AZ, UNITED STATES
Huang, Rong-Fong, Fremont, CA, UNITED STATES

Kahn, Peter, Phoenix, AZ, UNITED STATES
Marcero, Robert, Chandler, AZ, UNITED STATES
McGarry, Mark W., San Diego, CA, UNITED STATES
Tuggle, Todd, Oceanside, CA, UNITED STATES
Yu, Huinan, Buffalo Grove, IL, UNITED STATES

PI US 2004043479 A1 20040304
AI US 2002-149318 A1 20021114 (10)
WO 2000-US33499 20001211

DT Utility

FS APPLICATION

LREP Robin M Silva, Dorsey & Whitney, Intellectual Property Department Suite
3400, Four Embarcadero Center, San Francisco, CA, 94111-4187

CLMN Number of Claims: 12

ECL Exemplary Claim: 1

DRWN 26 Drawing Page(s)

LN.CNT 4513

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates generally to methods and apparatus for conducting analyses, particularly microfluidic devices. In preferred aspects, the devices are fabricated using ceramic **multilayer** technology to form devices in which parallel, independently controlled molecular reactions, such as nucleic acid amplification reactions including the polymerase chain reaction (PCR) can be performed. Additionally, the devices can include and comprise micro-gas chromatographs similarly fabricated from ceramics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 8 OF 12 USPATFULL on STN

AN 2003:271005 USPATFULL

TI Microfluidic devices comprising biochannels

IN Blackburn, Gary, Pasadena, CA, UNITED STATES

PI US 2003190608 A1 20031009

US 6875619 B2 20050405

AI US 2001-861171 A1 20010517 (9)

RLI Continuation-in-part of Ser. No. US 1999-438600, filed on 12 Nov 1999, GRANTED, Pat. No. US 6361958 Continuation-in-part of Ser. No. US 1999-460281, filed on 9 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-460283, filed on 9 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-458534, filed on 9 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-464490, filed on 15 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-466325, filed on 17 Dec 1999, PENDING Continuation-in-part of Ser. No. US 2000-492013, filed on 26 Jan 2000, PENDING

DT Utility

FS APPLICATION

LREP FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP, Suite 3400, Four Embarcadero Center, San Francisco, CA, 94111-4187

CLMN Number of Claims: 12

ECL Exemplary Claim: 1

DRWN 42 Drawing Page(s)

LN.CNT 5195

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a microfluidic device with microchannels that have separated regions which have a member of a specific binding pair member such as DNA or RNA bound to porous polymer, beads or structures fabricated into the microchannel. The microchannels of the invention are fabricated from plastic and are operatively associated with a fluid propelling component and detector.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 9 OF 12 USPATFULL on STN

AN 2003:187864 USPATFULL

TI Coded **particles** for multiplexed analysis of biological samples

IN Ravkin, Ilya, Palo Alto, CA, UNITED STATES

Goldbard, Simon, San Jose, CA, UNITED STATES

Zarowitz, Michael A., San Carlos, CA, UNITED STATES

Hyun, William C., San Francisco, CA, UNITED STATES

PI US 2003129654 A1 20030710
 AI US 2002-273605 A1 20021018 (10)
 RLI Continuation-in-part of Ser. No. US 2000-549970, filed on 14 Apr 2000,
 PENDING Continuation-in-part of Ser. No. US 2000-694077, filed on 19 Oct
 2000, PENDING Continuation-in-part of Ser. No. US 2002-120900, filed on
 10 Apr 2002, PENDING
 PRAI WO 2001-US51413 20011018
 US 2001-343682P 20011026 (60)
 US 2001-343685P 20011026 (60)
 US 2001-344482P 20011026 (60)
 US 2002-413675P 20020924 (60)
 US 2002-359207P 20020221 (60)
 US 2001-345606P 20011026 (60)
 US 2001-344483P 20011026 (60)
 US 1999-170947P 19991215 (60)
 US 1999-129664P 19990415 (60)
 US 2001-348025P 20011026 (60)
 US 2001-348027P 20011026 (60)
 US 2002-362001P 20020305 (60)
 US 2002-362055P 20020305 (60)
 US 2002-362238P 20020305 (60)
 US 2002-370313P 20020404 (60)
 US 2002-383091P 20020523 (60)
 US 2002-383092P 20020523 (60)
 US 2002-413407P 20020924 (60)
 DT Utility
 FS APPLICATION
 LREP KOLISCH HARTWELL, P.C., 520 S.W. YAMHILL STREET, SUITE 200, PORTLAND,
 OR, 97204
 CLMN Number of Claims: 65
 ECL Exemplary Claim: 1
 DRWN 22 Drawing Page(s)
 LN.CNT 5036
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Systems including apparatus, methods, compositions, and kits for
 multiplexed analysis of biological samples or reagents using coded
particles. The coded **particles** may be used to form
 positionally flexible arrays of samples and/or reagents in which the
 samples and/or reagents are identified by codes on the **particles**
 .

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 10 OF 12 USPATFULL on STN
 AN 2002:60923 USPATFULL
 TI Single-molecule selection methods and compositions therefrom
 IN Cubicciotti, Roger S., Montclair, NJ, UNITED STATES
 PI US 2002034757 A1 20020321
 US 6762025 B2 20040713
 AI US 2001-907385 A1 20010717 (9)
 RLI Continuation of Ser. No. US 1998-81930, filed on 20 May 1998, GRANTED,
 Pat. No. US 6287765
 DT Utility
 FS APPLICATION
 LREP LICATA & TYRRELL P.C., 66 E. MAIN STREET, MARLTON, NJ, 08053
 CLMN Number of Claims: 129
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 15716
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Single-molecule selection methods are provided for identifying
 target-binding molecules from diverse sequence and shape libraries.
 Complexes and imprints of selected target-binding molecules are also
 provided. The subject selection methods are used to identify
 oligonucleotide and nonnucleotide molecules with desirable properties
 for use in pharmaceuticals, drug discovery, drug delivery, diagnostics,
 medical devices, cosmetics, agriculture, environmental remediation,
 smart materials, packaging, microelectronics and nanofabrication. Single
 oligonucleotide molecules with desirable binding properties are selected

from diverse sequence libraries and identified by amplification and sequencing. Alternatively, selected oligonucleotide molecules are identified by sequencing without amplification. Nonnucleotide molecules with desirable properties are identified by single-molecule selection from libraries of conjugated molecules or nucleotide-encoded nonnucleotide molecules. Alternatively, target-specific nonnucleotide molecules are prepared by imprinting selected oligonucleotide molecules into nonnucleotide molecular media. Complexes and imprints of molecules identified by single-molecule selection are shown to have broad utility as drugs, prodrugs, drug delivery systems, willfully reversible cosmetics, diagnostic reagents, sensors, transducers, actuators, adhesives, adherents and novel multimolecular devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 11 OF 12 USPATFULL on STN
AN 2001:152673 USPATFULL
TI Methods for detecting and identifying single molecules
IN Cubicciotti, Roger S., Montclair, NJ, United States
PA Molecular Machines, Inc., Montclair, NJ, United States (U.S. corporation)
PI US 6287765 B1 20010911
AI US 1998-81930 19980520 (9)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Fredman, Jeffrey
LREP Licata & Tyrrell P.C.
CLMN Number of Claims: 27
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 15456

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Multimolecular devices and drug delivery systems prepared from synthetic heteropolymers, heteropolymeric discrete structures, multivalent heteropolymeric hybrid structures, aptameric multimolecular devices, multivalent imprints, tethered specific recognition devices, paired specific recognition devices, nonaptameric multimolecular devices and immobilized multimolecular structures are provided, including molecular adsorbents and multimolecular adherents, adhesives, transducers, switches, sensors and delivery systems. Methods for selecting single synthetic nucleotides, shape-specific probes and specifically attractive surfaces for use in these multimolecular devices are also provided. In addition, paired nucleotide-nonnucleotide mapping libraries for transposition of selected populations of selected nonoligonucleotide molecules into selected populations of replicatable nucleotide sequences are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 12 OF 12 USPATFULL on STN
AN 96:67879 USPATFULL
TI Methods for detection of an analyte
IN Bogart, Gregory R., Berthoud, CO, United States
Moddel, Garret R., Boulder, CO, United States
Maul, Diana M., Thornton, CO, United States
Etter, Jeffrey B., Boulder, CO, United States
Crosby, Mark, Niwot, CO, United States
PA Biostar, Inc., Boulder, CO, United States (U.S. corporation)
PI US 5541057 19960730
AI US 1993-75952 19930610 (8)
RLI Continuation-in-part of Ser. No. US 1992-924343, filed on 31 Jul 1992, now abandoned And a continuation-in-part of Ser. No. US 1992-873097, filed on 24 Apr 1992, now abandoned which is a continuation-in-part of Ser. No. US 1989-408291, filed on 18 Sep 1989, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Sisson, Bradley L.
LREP Lyon & Lyon
CLMN Number of Claims: 30

ECL Exemplary Claim: 1
DRWN 62 Drawing Figure(s); 23 Drawing Page(s)
LN.CNT 5337

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Method for detecting the presence or amount of an analyte of interest in a sample by providing a substrate having an optically active **surface** exhibiting a first color in response to light impinging thereon, and exhibiting a second color comprising a combination of wavelengths of light different from the first color or comprising an intensity of at least one wavelength of light different from the first color, in response to the light when the analyte is present on the **surface** in an amount selected from any one of 0.1 nM, 0.1 ng/ml, 50 fg, 2+10.sup.3 organisms comprising the analyte; and contacting the optically active **surface** with a sample potentially comprising the analyte of interest under conditions in which the analyte can interact with the optically active **surface** to cause the optically active **surface** to exhibit the second color when the analyte is present.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his .

(FILE 'HOME' ENTERED AT 13:45:33 ON 18 MAY 2006)

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 13:46:07 ON 18 MAY 2006

L1 74085 S EXTRACT? (3A) (NUCLEIC ACID? OR PROTEIN?)
L2 296 S L1 AND (DENDRIMER? OR DENDORIMER?)
L3 267 S L2 AND SURFACE
L4 228 S L3 AND PARTICLE?
L5 145 S L4 AND LAYER?
L6 134 S L5 AND AMINO
L7 12 S L6 AND MULTILAYER?
L8 12 DUP REM L7 (0 DUPLICATES REMOVED)

=> s (dendrimer? or dendorimer?)/ti

L9 7504 (DENDRIMER? OR DENDORIMER?)/TI

=> s l9 and surface

L10 1639 L9 AND SURFACE

=> s l10 and extract? (2a) (nucleic acid? or protein?)

3 FILES SEARCHED...

L11 6 L10 AND EXTRACT? (2A) (NUCLEIC ACID? OR PROTEIN?)

=> dup rem l11

PROCESSING COMPLETED FOR L11

L12 6 DUP REM L11 (0 DUPLICATES REMOVED)

=> s l12 and amino

L13 4 L12 AND AMINO

=> s l12 and amin?

L14 5 L12 AND AMIN?

=> d l14 bib abs 1-5

L14 ANSWER 1 OF 5 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

AN 2004-434733 [41] WPIDS

DNN N2004-343658 DNC C2004-163401

TI **Extracting nucleic acid** or protein using
dendrimer having an **amino** group, involves
extracting a nucleic acid or protein by the
amino group present on the **dendrimer**.

DC B04 D16 S03

IN FUKUSHIMA, K; MATSUNAGA, T; SATOU, S; TAKEYAMA, H; YOZA, B

PA (MATS-I) MATSUNAGA T; (YOKG) YOKOGAWA DENKI KK; (YOKG) YOKOGAWA ELECTRIC
CORP

CYC 2

PI JP 2004150797 A 20040527 (200441)* 13

US 2005260600 A1 20051124 (200578)

JP 3756477 B2 20060315 (200620) 12

ADT JP 2004150797 A JP 2002-269867 20020917; US 2005260600 A1 US 2003-647232
20030826; JP 3756477 B2 JP 2002-269867 20020917

FDT JP 3756477 B2 Previous Publ. JP 2004150797

PRAI JP 2002-269867 20020917

AN 2004-434733 [41] WPIDS

AB JP2004150797 A UPAB: 20040629

NOVELTY - **Extracting** (M1) **nucleic acid** or
protein using **dendrimer** having an **amino** group comprising
extracting a nucleic acid or protein by the
amino group present on the **dendrimer**, where multilayered **dendrimer**
is produced on the **surface** of microparticles and **amino**
group is produced on the **surface** of the **dendrimer**, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
dendrimer composition comprising multilayer **dendrimer** by which repeating
combination is carried out at the **surface** of the microparticle.

USE - (M1) is useful for **extracting nucleic acid** or protein by using dendrimer (claimed).

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of dendrimer. (Drawing includes non-English language text).

Dwg.1/4

L14 ANSWER 2 OF 5 USPATFULL on STN
AN 2005:298935 USPATFULL
TI Method of **extracting nucleic acid** or protein using **dendrimers** and **dendrimer** -compositional substances
IN Matsunaga, Tadashi, Tokyo, JAPAN
Takeyama, Haruko, Tokyo, JAPAN
Yoza, Brandon, Tokyo, JAPAN
Fukushima, Kazuhisa, Tokyo, JAPAN
Satou, Saya, Tokyo, JAPAN
PA Tadashi MATSUNAGA, Tokyo, JAPAN (non-U.S. corporation)
YOKOGAWA ELECTRIC CORPORATION, Tokyo, JAPAN (non-U.S. corporation)
PI US 2005260600 A1 20051124
AI US 2003-647232 A1 20030826 (10)
PRAI JP 2002-269867 20020917
DT Utility
FS APPLICATION
LREP WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP, 1250 CONNECTICUT AVENUE, NW, SUITE 700, WASHINGTON, DC, 20036, US
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 4 Drawing Page(s)
LN.CNT 487

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a method of **extracting nucleic acid** or protein, in which multi-layer dendrimers are formed on the **surface** of fine particles, **amino** radicals for capturing nucleic acid or protein are formed on the **surface** of these dendrimers, and nucleic acid or **protein** is **extracted** using these **amino** radicals. The present invention can greatly and easily increase the recovery ratio of nucleic acid or protein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 3 OF 5 USPATFULL on STN
AN 2005:151279 USPATFULL
TI **Dendrimer**-based DNA extraction methods and biochips
IN Fukushima, Kazuhisa, Tokyo, JAPAN
Satou, Saya, Tokyo, JAPAN
Matsunaga, Tadashi, Tokyo, JAPAN
Takeyama, Haruko, Tokyo, JAPAN
PA YOKOGAWA ELECTRIC CORPORATION, Tokyo, JAPAN (non-U.S. corporation)
TADASHI MATSUNAGA, Tokyo, JAPAN (non-U.S. corporation)
PI US 2005130191 A1 20050616
AI US 2004-928183 A1 20040830 (10)
PRAI JP 2003-417848 20031216
DT Utility
FS APPLICATION
LREP WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP, 1250 CONNECTICUT AVENUE, NW, SUITE 700, WASHINGTON, DC, 20036, US
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 203

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a dendrimer-based biochip, wherein a flow channel through which a solution containing biopolymer molecules is flowed is formed in the substrate of the biochip, a plurality of dendrimer molecules one end of each of which is bound to the walls of the flow channel are formed thereon, and probe biopolymer or antibody molecules are bound to the tips of the dendrimer molecules so that, if the probe biopolymer molecules are bound, then target biopolymer

molecules can be captured by means of a complementary combination and, if the antibody molecules are bound, then **protein** can be **extracted** by means of antigen-antibody reaction, whereby biopolymers can be retrieved in a highly efficient manner.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 4 OF 5 USPATFULL on STN
AN 2003:64675 USPATFULL
TI Reactions on **dendrimers**
IN Neri, Bruce P., Madison, WI, UNITED STATES
Hall, Jeff G., Madison, WI, UNITED STATES
Lyamichev, Victor, Madison, WI, UNITED STATES
Smith, Lloyd M., Madison, WI, UNITED STATES
PI US 2003044796 A1 20030306
US 6692917 B2 20040217
AI US 2001-940244 A1 20010827 (9)
RLI Continuation-in-part of Ser. No. US 2000-732622, filed on 8 Dec 2000,
PENDING Continuation-in-part of Ser. No. US 1999-350309, filed on 9 Jul
1999, GRANTED, Pat. No. US 6348314 Division of Ser. No. US 1996-756386,
filed on 26 Nov 1996, GRANTED, Pat. No. US 5985557 Division of Ser. No.
US 2000-381212, filed on 8 Feb 2000, PENDING A 371 of International Ser.
No. WO 1998-US5809, filed on 24 Mar 1998, UNKNOWN
DT Utility
FS APPLICATION
LREP David A. Casimir, MEDLEN & CARROLL, LLP, Suite 350, 101 Howard Street,
San Francisco, CA, 94104
CLMN Number of Claims: 38
ECL Exemplary Claim: 1
DRWN 210 Drawing Page(s)
LN.CNT 15736

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to compositions and methods for the
detection and characterization of nucleic acid sequences and variations
in nucleic acid sequences. The present invention relates to methods for
forming a nucleic acid cleavage structure on dendrimers and cleaving the
nucleic acid cleavage structure in a site-specific manner. For example,
in some embodiments, a 5' nuclease activity from any of a variety of
enzymes is used to cleave the target-dependent cleavage structure,
thereby indicating the presence of specific nucleic acid sequences or
specific variations thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 5 OF 5 USPATFULL on STN
AN 2000:67426 USPATFULL
TI Cosmetic compositions for hair treatment containing **dendrimers**
or **dendrimer** conjugates
IN Franzke, Michael, Rossdorf-Gundernhausen, Germany, Federal Republic of
Steinbrecht, Karin, Ober-Ramstadt, Germany, Federal Republic of
Clausen, Thomas, Alsbach, Germany, Federal Republic of
Baecker, Sabine, Russelsheim, Germany, Federal Republic of
Titze, Jurgen, Gross-Bieberau, Germany, Federal Republic of
PA Wella Aktiengesellschaft, Darmstadt, Germany, Federal Republic of
(non-U.S. corporation)
PI US 6068835 20000530
AI US 1997-883924 19970627 (8)
PRAI DE 1996-19625928 19960628
DT Utility
FS Granted
EXNAM Primary Examiner: Venkat, Jyothsna
LREP Striker, Michael J.
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 793

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The hair treatment compositions are in a variety of forms including
permanent shaping compositions, oxidative after-treatment compositions,

hair fixing compositions, hair bleaching compositions, hair cleansing compositions, hair care compositions or hair dye compositions containing direct-dyeing dye compounds and/or a combination of at least one developer and coupler and are characterized by 0.1 to 35 percent by weight of at least one dendrimer, preferably a poly(iminopropane-1,3-diyl)-dendrimer with nitrile and/or amino end groups. Methods of hair treatment based on these hair treatment compositions are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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